

## **New Drive and Chassis Technology for a Trendsetter**

- **New BMW X3 is a fuel miser thanks to 8-speed automatic transmission, pulse memory, and automatic start-stop system.**
- **Complete axle systems, vibration dampers and new manual 6-speed transmission from ZF.**

**The BMW X3 was a pacesetter in the segment for sporty medium-size SUVs. The second generation is now arriving at the showrooms of dealers. Thanks to either the 8-speed automatic transmission or a newly developed manual 6-speed transmission from ZF, the new X3 shifts both comfortably and dynamically. Both transmissions can be combined with an automatic start-stop device. As much as 11 percent fuel can be saved by the combination with the 8-speed automatic transmission by contrast with the second-generation 6-speed automatic transmissions.**

Sold more than 600,000 times, the BMW X3 has turned out an absolute success. The second generation is equipped with new drive and chassis technology so that this success story can be continued. Especially the beefier engine version of the new X3, the three-liter, 225 kW, turbo-charged in-line six develops boosted dynamics and sporty acceleration. However, the smaller 135 kW common-rail Diesel engine also benefits from the 8-speed automatic transmission, which is characterized by soft and smooth shifts of high efficiency in conjunction with fuel savings of about six percent.

Moreover, BMW is equipping all variants of the new SUV with an automatic start-stop device. A hydraulic pulse memory makes this function possible for the first time in combination with an 8-speed automatic transmission and significantly contributes to the overall fuel reduction of as much as 17 percent. Thanks to the pulse memory, hydraulic oil is supplied to the shifting elements during starts so that driving-on is possible with the usual dynamics

as in a vehicle without start-stop function - and the driver saves about 5% fuel during stops with the engine turned off.

### **New manual 6-speed transmission**

The newly developed manual 6-speed transmission also reduces consumption thanks to a higher efficiency and a newly developed splash lubrication system. It can also be combined with an automatic start-stop system. A new internal shift system and carbon synchronizers permit swift shifts and increase shifting comfort.

### **The chassis also improves economy and comfort**

A five-link rear axle, developed and produced by ZF, improves riding comfort, dynamics and consumption as it is more compact and lighter than its predecessor. The front axle is also a completely new development and for the first time in a BMW combines a double-joint spring-strut-type axle with a body-decoupled damper connection. BMW is relying again on RFTs for the new X3. Running characteristics and noise quality used to be impaired by these tires with run-flat properties. For this reason, ZF has developed new vibration dampers. They are equipped with piston valves whose linear characteristics provide a high level of running characteristics and noise quality and are optimally adjusted to the run-flat properties of the RFTs.

### Captions:

- 1) Comfy also with RFTs: New vibration dampers from ZF for the BMW X3.
- 2) Consumption-optimized transmission technology: Customers can buy the new X3 either with the automatic 8-speed transmission with hydraulic pulse memory (HIS®) or with the new manual 6-speed transmission with carbon synchronizers. Both transmissions can be combined with an automatic start-stop system.

Photos: ZF



Presseinformation  
Press Information

Page 3/3, 2011-01-20

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ZF is a worldwide leading automotive supplier for Driveline and Chassis Technology with 123 production companies in 27 countries. In 2010, the ZF Group is expected to have achieved a sales figure of 12.9 billion euros with about 64,000 employees. In order to continue to be successful with innovative products, ZF annually invests at least five percent of its sales (2010: EUR 750 million) in research and development.

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